Name _____ Date _____ Period _____

Newton's Second Law of Motion

Enrichment Activity

The diagrams below show situations in which forces are acting on objects. Study each diagram. Then, answer the questions.

1. **a.** In which diagram are the forces balanced? _____

b. What will happen to the object in each diagram? Why? _____

_____

2. **a.** What factor is different in diagrams A and B? What factor is the same? _____

_____

b. Which object will have the greater acceleration? Why? _____

_____

3. **a.** How do diagrams A and B compare? _____

b. Which object will have the greater acceleration? Why? _____

_____

4. **a.** What factors are different in diagrams A and B? _____

b. Which object will have the greater acceleration? Why? _____

_____